

REGISTERED TMDL
00117203

GENERAL PERMIT REISSUANCE TRACKING SHEET

Facility Name: Vulcan Const. Materials LP - Dale Quarry
Owner: Vulcan Construction Materials LP

County: Chesterfield
Permit #: VAG84 0114
Permit Writer: DEC/BKR

| | Date |
|--|---------|
| Registration Statement Received (UPDATE CEDS) | 3/25/14 |
| Additional Information Requested | |
| Additional Information Received | |
| Fee Deposit Received | 3/27/14 |
| Registration Statement Considered Complete | 3/25/14 |
| Registration Statement to TMDL staff | 6/5/14 |
| All Applicable Information entered into CEDS | 6/16/14 |
| Application Information Added to General Permit Tracking Spreadsheet | 6/16/14 |

Concurrences

| | | | | |
|-----------|------------------|--------------------|--|--|
| Signature | <u>D. Cutler</u> | <u>C. O'Hanlon</u> | | |
| Date | 6/16/14 | 6/30/14 | | |

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY

VALLEY REGIONAL OFFICE

4411 Early Road - P.O. Box 3000

Harrisonburg, VA 22801

SUBJECT: Registration Statement Errata for VPDES Permit Nos. VAG840113, VAG840114,
VAG840118, VAG840120, VAG840126, VAG840134, VAG840135, VAG840137,
VAG840152, VAG840156, VAG840162

TO: GP File

FROM: Olive Critzer

DATE: March 25, 2014

The following deficiencies were noted in the subject general permit registration statements:

All the facility names are to be prefaced with Vulcan Construction Materials *LP*

The above deficiency in the registration statement is considered to be insignificant in that it will not affect the reissuance of the general permit.



Ms. Olive B. Critzer
Valley Regional Office
Department of Environmental Quality
PO Box 3000
Harrisonburg, VA 22801

RECEIVED

March 17, 2014

MAR 25 2014

To: _____

FILE: _____

RE: Reissuance of Nonmetallic Mineral Mining General Permit No. VAG840114
Vulcan Construction Materials Company – Dale Quarry – Chesterfield County

Dear Ms. Critzer,

Enclosed, please find the General Permit Registration form and appropriate attachments for the above referenced facility.

We propose no changes to the existing permitted facilities and desire only to obtain a reissuance on the General Permit. Please provide a DMR form for the process water outfall 001 described in the following enclosures. It should be noted that all process water outfalls do not include discharges from vehicle washing activities or oil water separator discharges; therefore, petroleum hydrocarbon sampling should not be included on the DMR form for each process water outfall.

Thank you for your kind assistance in this matter. If you have any questions and/or comments, please contact Brian Parker of Cardno MM&A at (804) 441-8388 or myself at (804) 717-8374.

Sincerely,

Walter C. Beck III

Walter Beck
Environmental Engineer

Enclosures

**VPDES GENERAL PERMIT REGISTRATION STATEMENT
NONMETALLIC MINERAL MINING**

RECEIVED
DEQ - VA
MAR 25 2014

1. Facility Owner: Vulcan Construction Materials, LP C/O Walter Beck
2. Owner Mailing address: Street or P.O. Box 5601 Iron Bridge Parkway, Suite 201
City or Town Chester State Virginia Zip Code 23831
3. Owner Telephone #: (804) 717-5770 4. Owner Email: BeckW@VMCMAIL.com
5. Contact Name: Walter Beck 6. Contact Telephone #: (804) 717-8374
7. Contact Email: BeckW@VMCMAIL.com
8. Facility Name: Dale Quarry 9. Facility Lat/Long (deg-min-sec): 37-21-24 / 77-30-37
10. Facility Address: 11520 Iron Bridge Road, Chester, Virginia 23831
(County, Street Number, City or Town, State, Zip)
11. Description of mining activity (mineral mined):
Extraction of granite and production of crushed stone products for the construction industry.
12. Primary SIC code: 1423 Secondary SIC codes: _____
13. Does this mine currently have a VPDES permit? Yes ☒ No ☐ (If yes, give permit number) VAG840114
14. Discharge Information: PLEASE SEE ATTACHED OUTFALL DESCRIPTIONS

| OUTFALL NUMBER | OUTFALL TYPE (see note 1) | SOURCE OF DISCHARGE (see note 2) | RECEIVING STREAM AND WETLANDS | LATITUDE/ LONGITUDE (deg-min-sec) |
|-------------------|------------------------------|-------------------------------------|----------------------------------|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Notes:

- Outfall Type - list as (1) process wastewater, (2) storm water, or (3) process water commingled with storm water.
- Source of Discharge (If the outfall has a combination of these sources, list all that apply): (1) mine pit dewatering, (2) storm water associated with industrial activity, (3) storm water not associated with industrial activity, (4) ground water infiltration, (5) wastewater from vehicle or equipment degreasing activities, (6) vehicle washing, (7) mined material washing, (8) return water from operations where mined material is dredged, (9) noncontact cooling water, (10) miscellaneous plant cleanup wastewater, (11) co-located facility discharges (identify the co-located facility), (12) emergency outfall for process water systems designed as "no discharge" or (13) other discharges not listed here (describe).

15. Is the process water system designed to operate as "no discharge?" Yes ☐ No ☒ (see instructions).
16. Storm Water:
- Indicate which exclusively storm water outfalls (if any) will be representative outfalls that require a single Discharge Monitoring Report (DMR). SEE ATTACHED OUTFALL LIST FOR REPRESENTATIVE OUTFALLS
 - For storm water outfalls which are to be represented by other outfall discharges, attach a description of the activities associated with those outfalls and explain why they are substantially the same as the representative outfall to be sampled.
 - Does the storm water discharge from a storm water management structure (a series of large settling sedimentation basins). Yes ☒ No ☐
 - Storm water pollution prevention plans (SWPPPs) do not need to be submitted with this registration. However, see requirements for development, updating and implementation in instructions below.

17. If the facility discharges to the Chickahominy watershed above Walkers Dam, provide monitoring data to demonstrate compliance with 9VAC25-260-310 m (Chickahominy special standards) as per Part I B 14 of the 2014 VPDES Nonmetallic Mineral Mining General Permit (if not already submitted to the Department under a different VPDES permit in a DMR).

18. Description of wastewater treatment or reuse/recycle systems, or both:

Solids settling in the pit and/or sedimentation basins prior to discharge

19. List any chemicals added to water that could be discharged:

Callaway (4310, 4325, 4330, 4345, 4848, 4880, 3455L, 3477, 3458, 6280), Jayfloc 3475, Rockfloc (3742R, 3746R, 3719R), RockDust (100, 3330), Paschal PFR (C453, F444, F485, C258, P255, D252, D253), Sodium Hydroxide, Hydrated Lime, Sulfuric Acid (20% Baume), Hydrochloric Acid

20. Indicate any co-located facilities:

21. Is this facility a hazardous waste treatment, storage, or disposal facility? Yes ☐ No ☒

22. Attach to this registration statement a schematic drawing showing the sources of water used for production, the industrial operations contributing to or using water, and the conceptual design of the methods of treatment and disposal of wastewater and solids. Identify outfall numbers listed in item 14 above.

23. Attach to this registration statement an aerial photo or scale map which clearly shows the property boundaries, plant site, drainage areas associated with each outfall, locations of all mine pit dewatering, existing, significant sources of materials exposed to precipitation, storm water management structures (if any), storm water or process wastewater outfalls listed in item 14 above and the receiving streams.

24. Attach to this registration statement evidence that the operation to be covered by this general permit has a mining permit which has been approved by the Virginia Department of Mines, Minerals and Energy, Division of Mineral Mining (or associated waived program) under the provisions and requirements of Title 45.1 of the Code of Virginia. Mineral mines owned and operated by governmental bodies not subject to the provisions and requirements of Title 45.1 of the Code of Virginia are exempt from this requirement.

Mining Permit No.: 05726AE

25. Does the facility discharge storm water into a Municipal Separate Storm Sewer System (MS4)? Yes ☐ No ☒

If yes, provide name of the MS4 operator _____

26. Would you like your permit sent to you electronically? Yes ☐ No ☒

If yes, please list the email address to send it to: Prefer hard copy; If possible, also email to BeckW@VMCMAIL.com

Certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Signature: _____

Walter C. Beck III

Date: 3/17/2014

Print Name Walter C. Beck III

Title: Environmental Engineering

Required attachments:

1. Evidence of approved mining permit
2. Water use schematic drawing
3. Aerial photo or map

FOR DEPARTMENT USE ONLY:

Accepted/Not Accepted by: Brad Ricles

Date: 6/26/14

Basin James River

Stream Class III

Section 5B

Special Standards —

TMDL Compliance Yes

SECTION 5.0 DISCHARGE SAMPLING AND ANALYSIS

The General Permit requires sampling and analysis of point source discharges that fall in the following categories.

Mine dewatering and/or discharges of process wastewater, including commingled stormwater.

Stormwater discharges from other plant areas where the stormwater has contacted areas directly related to manufacturing, processing, or raw materials storage.

5.1 Process Water and Stormwater Sampling/Analysis Program

Refer to Table 1 for required sample frequency and analytical parameters. There is one appropriate sampling location at the Dale Quarry; it will be used to sample process discharge as listed below.

Representative Outfalls to be Sampled:

| Outfall No. | Latitude / Longitude | Receiving Stream | Outfall Type | Source of Discharge |
|--------------------|-----------------------------|-------------------------|---|----------------------------|
| 334-001 | 37° 21' 24" / 77° 30' 37" | Swift Creek | Commingled Process Water and Stormwater | Mine pit dewatering |

Note: Mine dewatering flows and runoff from yard and process areas which drain to the pit are pumped, if necessary, to the old pit and, from there, are pumped to discharge at outfall 334-001. This outfall will only be used during emergency situations.

Outfall 334-005 is no longer being used as a stilling basin and is no longer a point of stormwater discharge. This basin has been graded so that it now directs all drainage back towards the pit.



COMMONWEALTH of VIRGINIA

O. GENE DISHNER
DIRECTOR

BENNY R. WAMPLER
DEPUTY DIRECTOR

Department of Mines, Minerals and Energy

Division of Mineral Mining

P.O. Box 3727

Charlottesville, Virginia 22903-0727

(434) 951-6310

Conrad T. Spangler III, Division Director

DIVISIONS
ENERGY
GAS AND OIL
MINED LAND RECLAMATION
MINERAL MINING
MINERAL RESOURCES
MINES
ADMINISTRATION

PERMIT/LICENSE TO OPERATE A MINE

Permit/License No. 05726AE

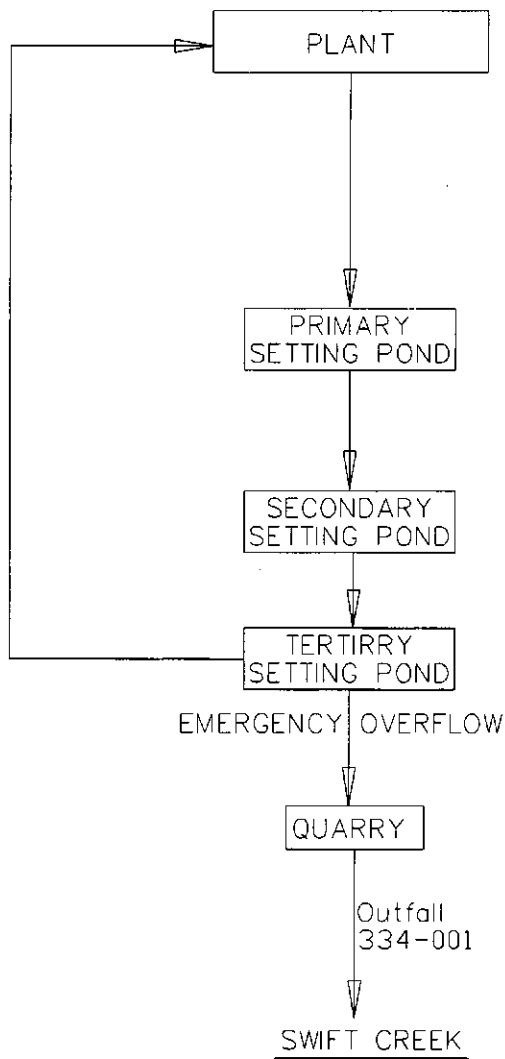
Was issued to VULCAN CONSTRUCTION MATERIALS LP - DALE QUARR
Whose main office is located at (MIDEAST DIVISION)
CHESTER, VA 23831

For type of mineral(s) GRANITE
Mine Type QUARRY Exemption Type N/A
Located at 1.5 MILES SW OF CHESTERFIELD CH OFFRT 10
County of CHESTERFIELD

THIS PERMIT IS ISSUED PURSUANT TO CHAPTER 14.1 AND 16, TITLE 45.1, CODE OF VIRGINIA(1950),
AS AMENDED Being an Act to require permits/licenses for certain mining operations and
to fix conditions for issuance thereof; to provide that certain safety and reclamation
practices be performed by mine operators and for inspection thereof; and to advise on
satisfactory compliance; to require an annual report on progress of reclamation and
tonnage of mineral mined; to provide for the Director to seek injunctive relief; to
provide for a Board of Surface Mining Review, a Board of Mineral Mine Examiners, and to
provide for appeals from rulings, violations and decisions of the Department or
associated Boards.

Issued JANUARY 21 2004
Covering 188.50 ACRES.
Receipt number 25285

THIS PERMIT/LICENSE MUST BE POSTED NEAR THE MINE OFFICE



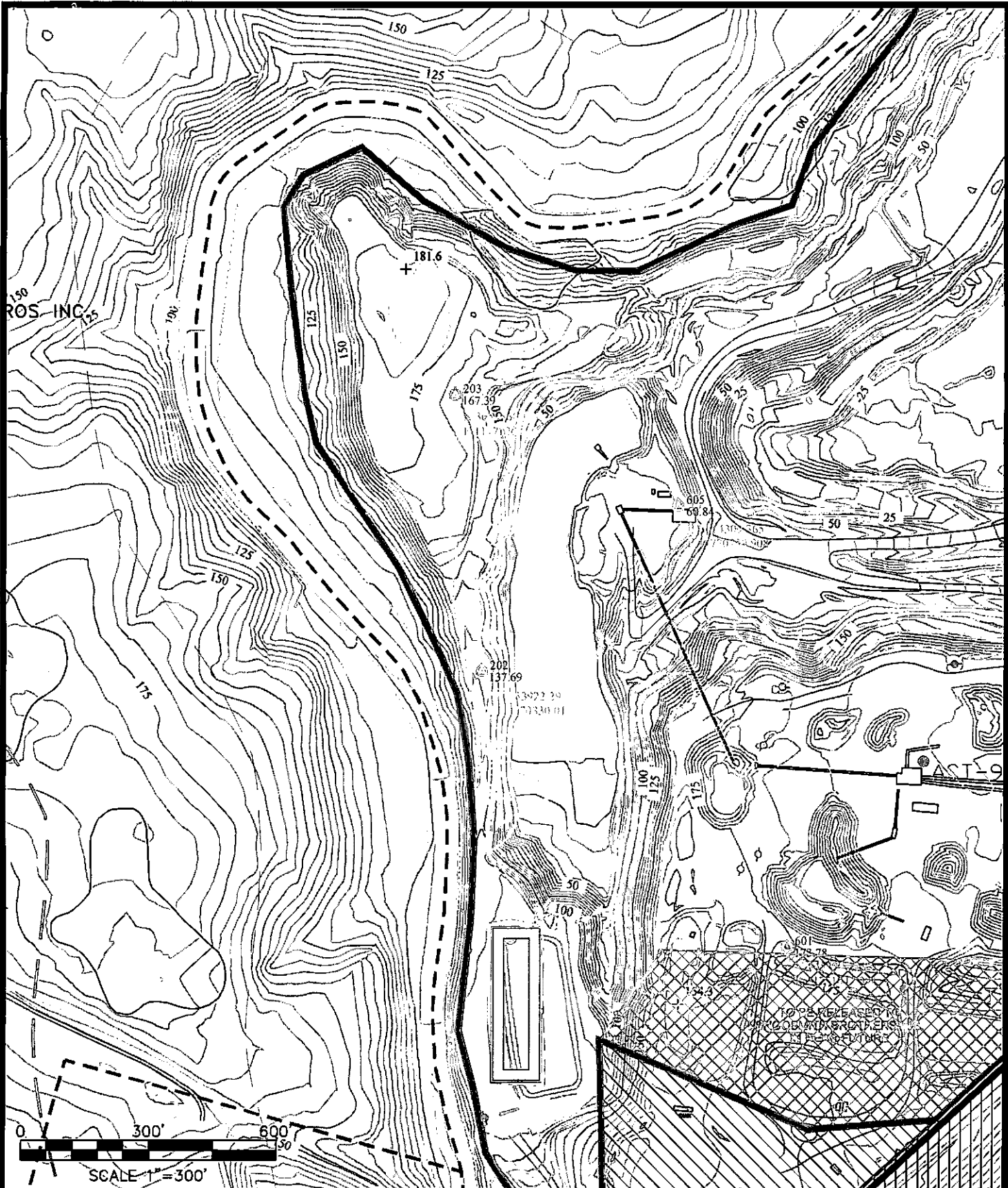
DRAWING NOT TO SCALE

Prepared by:



WATER FLOW SCHEMATIC
DALE PLANT
CHESTERFIELD, VA
JUNE 2009

Vulcan
Materials Company



SHEET

1 of 1

Prepared by:



BMP/SPPP
OUTFALL LOCATION MAP
DALE QUARRY
CHESTER, VA

DATE: 05/05/08
SCALE: 1"=300'
DESIGNED: BMP
DRAWN: BMP
PROJECT# PR349C

Vulcan
Construction Materials

SUBJECT: Reissuance of VPDES Permit No. VAG840114, Vulcan Construction Materials LP-Dale Quarry

TO: Jennifer Palmore

FROM: Olive Critzer

Olive

DATE: June 12, 2014

Receiving Stream: Swift Creek

Waterbody ID: VAP-J17R

Latitude/Longitude: 37 21 24N / 77 30 37W

Location: 11520 Iron Bridge Road, Chester

Based on the outfall location identified on the attached topographic map and based on the information above, please provide me with the following:

1. Does the facility discharge to an impaired water or to an unnamed, unimpaired tributary of an impaired water for which a TMDL waste load allocation has not been established by the board and approved by EPA? **Y**

If Yes, give the name of the impaired water: Swift Creek;

| Impairment | Pollutant causing the impairment |
|---|----------------------------------|
| Aquatic Life Use due to low dissolved oxygen | Y |
| Aquatic Life Use due to altered benthic community | Y |
| | Y / N |

2. Does any approved TMDL impose limits on discharges from this facility? **Y**

If Yes:

| TMDL Pollutant | Does the facility discharge the TMDL pollutant? |
|---|---|
| Chesapeake Bay TMDL – TN, TP, and TSS | Y |
| Appomattox River Basin Bacterial TMDL – E. coli – | N |
| | Y / N |

Check if applicable:

☐ This facility was not included in the TMDL; however, the addition of this point source is not expected to cause water quality violations because it represents an insignificant load (less than 1%) compared to the TMDL.

☐ This facility was included in the Sediment TMDL for

(stream name)

and was given an allocation based on a TSS concentration of _____ mg/L.